APPENDIX	G
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G.3	Bills of Activities for the MHC Process

Activities Associated with the Bath Setup

Activity Description	Cost Driver	Cost/Activity
Wear masks, goggles, rubber gloves, and suitable clothing	\$/bath setup	\$2.50
Go to storage area	labor	
Locate protective equipment	labor	
Put on protective equipment	labor	
	protective equipment	
Return to tank	labor	
Put in base liquid (usually water)	\$/bath setup	\$2.60
Open water valve	labor	
Wait for measured amount	labor	
Close water valve	labor	
Document water amount/level	labor	
Mix the bath solution	\$/bath setup	\$5.00
Open the chemical containers	labor	
Add the chemicals to the bath	labor	
Turn on the agitator	labor	
Wait for mixing	labor	
Turn off the agitator	labor	
Titrate sample	labor	
Document	labor	
Repeat as necessary	labor	
Flush containers	\$/bath setup	\$3.00
Turn on water valve	labor	
Spray containers	labor	
Turn off water valve	labor	
Place empty container in storage area	\$/bath setup	\$2.00
Take container to storage	labor	
Documentation	labor	
Return to tank	labor	
Total =	\$per testing	\$15.10

Activities Associated with the Tank Cleanup

Activity Description	Cost Driver	Cost/Activity
Rinse with water	\$/cleanup	\$25.00
Obtain spray/rinse equipment	labor	
Turn water on	labor	
Spray equipment	labor	
Turn water off	labor	
Obtain scrubbing and cleaning tools	\$/cleanup	\$1.00
Go to storage area	labor	
Find necessary tools	labor	
Return to tank	labor	
Hand scrub tank	\$/cleanup	\$30.00
Put on gloves, choose tool	labor	
Scrub tank	labor	
	cleaning supplies	
Return cleaning tools	\$/cleanup	\$1.25
Go to the storage area	labor	
Place tools in correct place	labor	
Return to tank	labor	
Spray according to schedule	\$/cleanup	\$5.00
Wait for time to elapse before spraying	labor	
Obtain spray equipment	labor	
Turn spray on	labor	
Spray all cleaning solution from tank	labor	
Turn spray off	labor	
Operator opens control valve	\$/cleanup	\$1.00
Find correct control valve	labor	
Open valve	labor	
Water goes to treatment facility	\$/cleanup	\$2.75
Wait for water to drain	labor	
Operator closes control valve	\$/cleanup	\$1.00
Locate correct control valve	labor	
Close valve	labor	
T	otal = \$per testing	\$67.00

Activities Associated with Sampling and Testing

Activity Description	Cost Driver	Cost/Activity
Get sample	\$/testing	\$1.35
Go to the line	labor	
Titrate small sample into flask	labor	
	materials	
Transfer to lab	labor	
Test sample	\$/testing	\$1.35
Request testing chemicals	labor	
Document request	labor	
Locate chemicals	labor	
Add chemicals to sample	labor	
	materials	
Mix	labor	
Document the results	labor	
Return testing chemicals	labor	
Relay information to line operator	\$/testing	\$1.00
Return to line	labor	
Inform operator of results	labor	
Document	labor	
Tota	l = \$per testing	\$3.70

Activities Associated with Filter Replacement

Activity Description		Cost Driver	Cost/Activity
Check old filter		\$/replacement	\$1.50
Pull canister from process		labor	
Inspect filter		labor	
Decide if replacement is necessary		labor	
Get new filer		\$/replacement	\$1.75
Go to storage area		labor	
Locate new filters		labor	
Fill out paper work		labor	
Return to tank		labor	
Change filter		\$/replacement	\$12.25
Pull old filter from canister		labor	
Replace with new filter		labor	
		filter	
Replace canister		labor	
Fill out paper work		labor	
Dispose of old filter		\$/replacement	\$2.00
Take old filter to disposal bin/area		labor	
Dispose of filter		labor	
Return to tank		labor	
Fill out paper work		labor	
	Total =	\$per replacement	\$17.50